

REMARKS

Claims 1-18 are pending herein.

I. Claim objections based on informalities.

The USPTO respectfully rejects Claims 8, 10-11 and 14 because of informalities. Applicant respectfully notes that claims 8, 10-11, and 14 have been amended.

II. The obviousness rejections based on Sasaki et al. (US 6,357,514) in view of Zeighami et al. (US 2003/0183371).

The USPTO respectfully rejects Claims 8-15 under U.S.C. § 103(a) as being obvious over Sasaki et al. in view of Zeighami et al.

Independent Claims 8 and 9 have been amended. See pages 9-10 of the specification for support. No new matter is added.

A. The cited references do not teach or suggest the metal plate having a plurality of slits into which the respective heat dissipating portions are inserted while being bent along the slits claimed in claim 8.

Regarding the limitations of claim 8 which claim in relevant part:

"a metal plate having a plurality of slits into which said respective heat dissipating portions are inserted while being bent along said slits and press-connected thereto with use of elastic deformation of the heat dissipating portion per se . . ." (emphasis added)

it is respectfully not seen where the cited references teach or suggest the claimed structure.

Specifically, as seen in Sasaki Figure 1, Sasaki teaches a base member 1 have a plurality of slits 12 into which heat dissipating fins 2 are inserted. However, the heat dissipating fins of Sasaki are not structurally bent along the slits, as claimed in claim 8. Rather, as shown in Figure 1 of Sasaki, the heat dissipating fins 12 are merely inserted through the slots; there is no bending of the fins (see also column 5, lines 34-41 of Sasaki for

a description of inserting the heat dissipating portions into the slits).

In contrast, please see present Figures 8-9, which show a metal plate 9 having a plurality of slits 10 into which heat dissipating portions 4 are inserted. Furthermore, pages 9-11 of the present specification describe examples of embodiments where the heat dissipating portions are structurally bent along the slits, as claimed in claim 8.

Additionally, the heat dissipating fins of Sasaki are not press-connected to the base member through the use of elastic deformation. Instead, as seen in Figure 1 of Sasaki, the heat dissipating fins 2 are pressed against the base member 1 by a fitting member 3. In effect, heat dissipating fins 2 are sandwiched between the base member 1 and fitting member 3. Thus, Sasaki does not teach or suggest that any elastic deformation of the heat dissipating fins is used to press-connect the fins to the base member, as is claimed in claim 1.

In contrast, see pages 9-11 of the present specification, which describes examples of embodiments where the heat dissipating portions may be press-connected to the metal plate through elastic deformation, as claimed in claim 8. As the heat dissipating portions are inserted into the slits, the heat dissipating portions are elastically deformed (i.e., bent) along the configuration of the slit. This elastic deformation press-connects the heat dissipating portions to the metal plate.

Furthermore, Zeighami also does not appear to teach or suggest a metal plate having a plurality of slits. Thus, it is respectfully asserted that the cited references, either alone or in combination, do not teach or suggest the claimed structure quoted above. Therefore, it is respectfully asserted that claim 8 is not obvious over Sasaki in view of Zeighami.

B. The cited references do not teach or suggest the at least one mechanically deformed portion of the metal plate joining the metal plate and the heat dissipating portion.

Regarding the limitations of claim 8 that claim:

"at least one mechanically deformed portions joining portion of said metal plate to join said metal plate and said heat dissipating portions which are inserted into said respective slits and fixed thereto." (emphasis added)

it is respectfully not seen where the cited references teach or suggest the claimed structure.

Specifically, present Figure 7 illustrates the mechanically deformed portions claimed in claim 8 (see also pages 11-13 of the present specification for an explanation of the mechanically deformed portions). As shown in present Figure 7, the heat dissipating portion 4 is inserted through a slit in the upper portion 9 of metal shield plate member 7 having concave portions 14. As best seen in Figure 7, and described at page 12, the metal plate shield member is press-deformed and crimped in such a manner that the heat dissipating portion 4 is firmly pressed and joined in the slit of the metal plate shield member. The crimping of the metal plate shield member forms concave portions 14 in metal plate 9, shown in present Figure 7. **This mechanical deformation of the metal plate joins the metal plate and the heat dissipating portion**, as claimed in claim 8.

In contrast, Sasaki does not teach or suggest the mechanical deformation of a metal plate claimed in claim 8. **As noted above, the metal plate is Sasaki is merely held in place by a fitting member; there is no indication that the metal plate is deformed in order to join it to the heat dissipating member.** Furthermore, as noted above, Zeighami does not teach or suggest a metal plate; thus, Zeighami cannot teach or suggest a mechanical deformation in the metal plate as claimed in claim 8.

Thus, it is respectfully asserted that the cited references, either alone or in combination, do not teach or suggest the claimed structure quoted above. Therefore, it is respectfully asserted that claim 8 is not obvious over Sasaki in view of Zeighami.

C. Claim 9

Similar to claim 8, claim 9 also claims a metal shield plate having a plurality of slits into which the heat dissipating portions are inserted while being bent and at least one mechanically deformed portion joining the metal plate to the heat dissipating portion. As noted above, neither Sasaki nor Zeighami, either alone or in combination, teach these limitations claimed in claim 9. Therefore, it is respectfully asserted that claim 9 is not obvious over Sasaki in view of Zeighami.

D. Dependent claims 10-15.

As noted above, independent claims 8 and 9 are allowable. Therefore, it is respectfully asserted that dependent claims 10-15 are also allowable.

III. Conclusion.

Reconsideration and allowance of all of the claims is respectfully requested.

If there are any additional charges with respect to this Amendment or otherwise, please charge them to Deposit Account No. 06-1130.

Please contact the undersigned for any reason. Applicants seek to cooperate with the Examiner including via telephone if convenient for the Examiner.

Respectfully submitted,

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Date: June 30, 2006

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